

REMARKS/ARGUMENTS

The Examiner is thanked for the continued indication of allowable subject matter.

Claims 1-27 stand rejected. Claims 3-27 stand rejected under 35 U.S.C. §112 Second Paragraph as indefinite for lack of antecedent basis. In response, the Applicants have reviewed and revised the claims to more clearly articulate antecedent basis. Claim 3 has been rendered in independent form. In view of the foregoing, it is again submitted that claims 3-27 are not indefinite, and that claims 3, 4 are allowable, along with claims 5-25 and 27, indicated as allowed.

Claims 1, 2, 4 and 26 stand rejected under 35 U.S.C. §102 (b) as being anticipated by Ishida, previously cited. The Applicants respectfully traverse the rejection and herewith request reconsideration in view of the following explanation and further clarifying amendments.

Ishida has been cited as having reference to "modeling downconversion imperfection in an imperfectly downconverted signal from a receiver downconverter operative to receive both an intended signal and a self-generated signal from a local associated transmitter forming a received relayed composite signal"... and to "compensating for said downconversion imperfections *in said received signal*," [*emphasis added*], and to "canceling self-generated signal portions from said compensated composite signal to provide an output signal for demodulation." The Applicants submit that the Examiner's paraphrased quotation from claim 1 of the Applicant's patent application is misapplied to the Ishida reference. The differences between the present invention, as claimed via this language, and the cited and applied prior art will be evident upon recognition that there is a patentable distinction between *compensating for the channel characteristics* (e.g., actual phase and amplitude) and *compensating for component characteristics* (e.g., comparative phase and amplitude IMBALANCE). However, in order to expedite the allowance of the patent application, the Applicants have explicitly included the element of matching delay, phase and amplitude of the self-generated signal portion of the compensated composite signal to that of a local representation of the self-generated signal. This language now explicitly includes a step incorrectly cited by the Examiner in reference to Figures 6, or 8, element 13, and in reference to Col. 8, lines 5-12 of Ishida, as against our quite different "imperfection compensating step." These differences have been explained previously in response to a prior office action, the discussion of which is incorporated herein by reference. In summary, a truly ideal receiver need only match the delay, phase and amplitude of the stored

reference signal to that of the actual received signal. The Applicants point out that this is the teaching of Ishida, where offsets in time, phase and amplitude are due to channel conditions and inherent characteristics of the *ideal* receiver. Such inherent characteristics as analytically explained filter characteristics in the downlink path, causing delay and amplitude shift, as well as phase offsets that are inherent between the oscillators in the transmitter and the receiver.

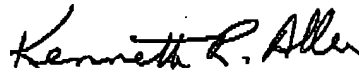
By contrast, the intended import of claim 1 of the present application is use of imperfection cancellation elements (depicted as element 12 of Figures 1 and 4 of the present application), which provides matches for physical imperfections respectively expressed as quadrature phase offset (elements 112, 122, 124), quadrature d.c. imbalance (elements 102, 104, 106, 108), and quadrature amplitude imbalance (elements 114, 118, 120), as a result of the imperfect physical components of downconverter 34, as shown in Figure 3.

CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 650-326-2400.

Respectfully submitted,



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